



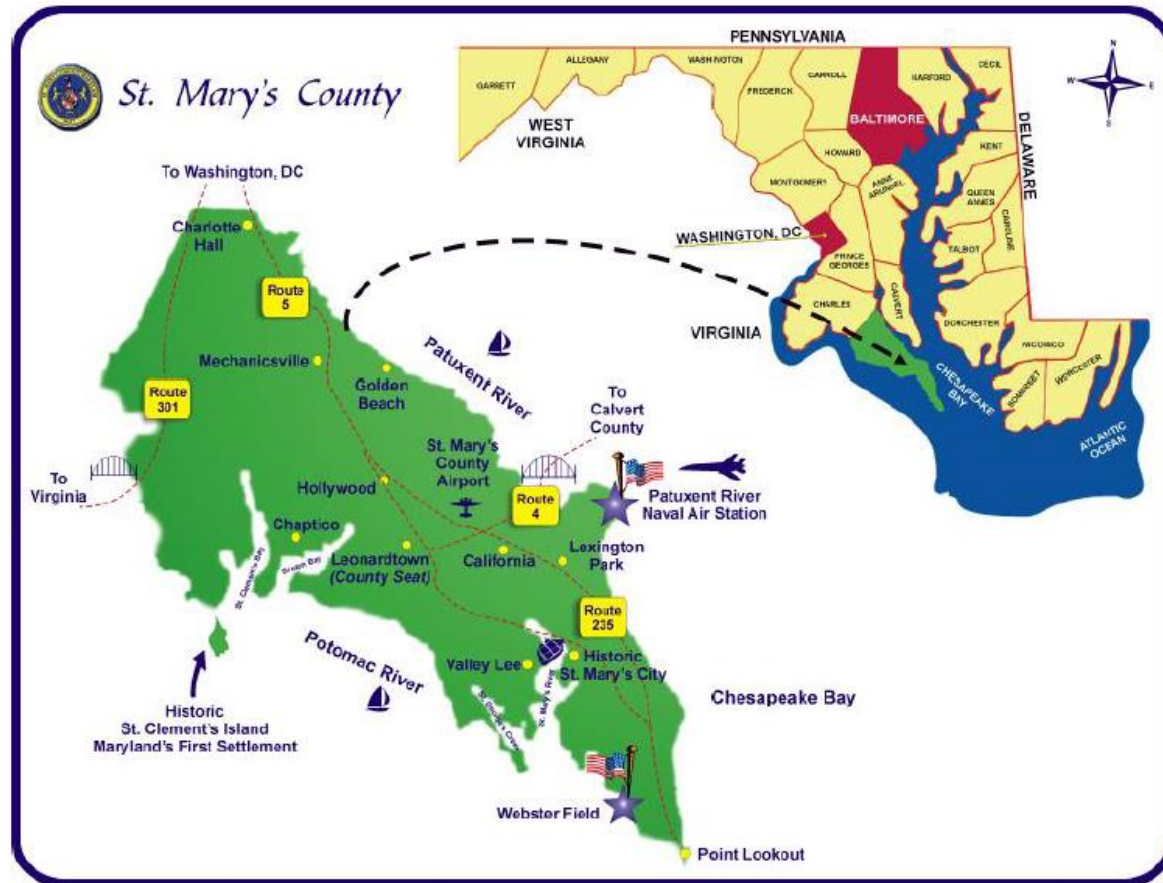
CITIZENS ACADEMY

St. Mary's County Government Community Outreach Program

St. Mary's County Government
Department of Public Works &
Transportation

St. Mary's County – Unique Rural County

Location – Multiple Resources



Situated on a peninsula in Southern Maryland with over 500 miles of shoreline on the Patuxent River, Potomac River and the Chesapeake Bay.

The County is 38 miles Southeast of Washington D.C. and 90 miles South of Baltimore.

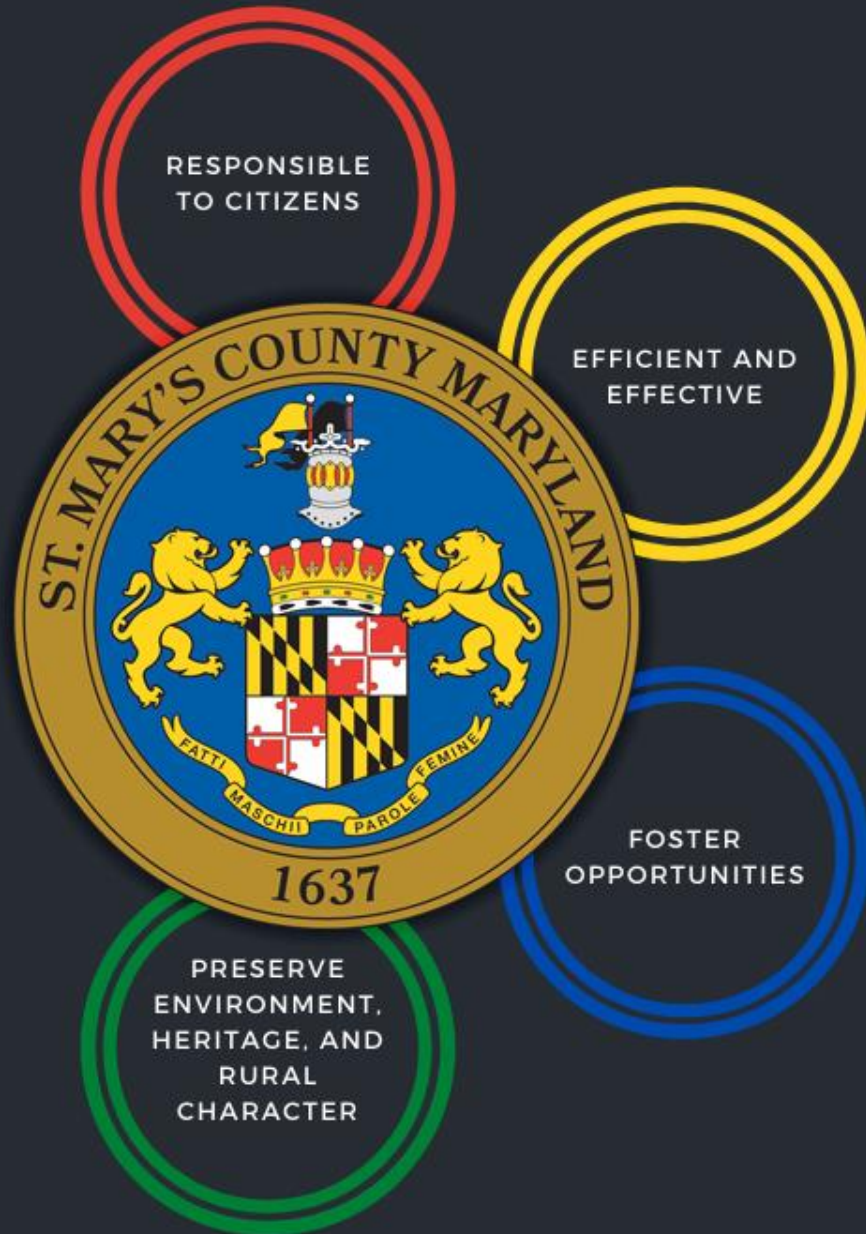
St. Mary's County – Unique Rural County

Things are different In St. Mary's County



MISSION STATEMENT

COMMISSIONERS OF ST. MARY'S COUNTY



The Commissioners of St. Mary's County will be:

Responsible and Accountable to the County's Citizens

- Low Taxes
- Balanced Budget
- High Ethical Standards
- Citizen Engagement
- Quality Customer Service
- Transparent Operations
- Support Programs for Youth, Families, and Seniors

Provide Effective and Efficient Services

- Robust Capital Improvement
- Infrastructure Investments
- Eliminate Unnecessary Obstacles
- Enhance Partnerships
- Use Data Driven Priorities
- Identify Technological Opportunities
- Inspire Competent Human Resource Capabilities

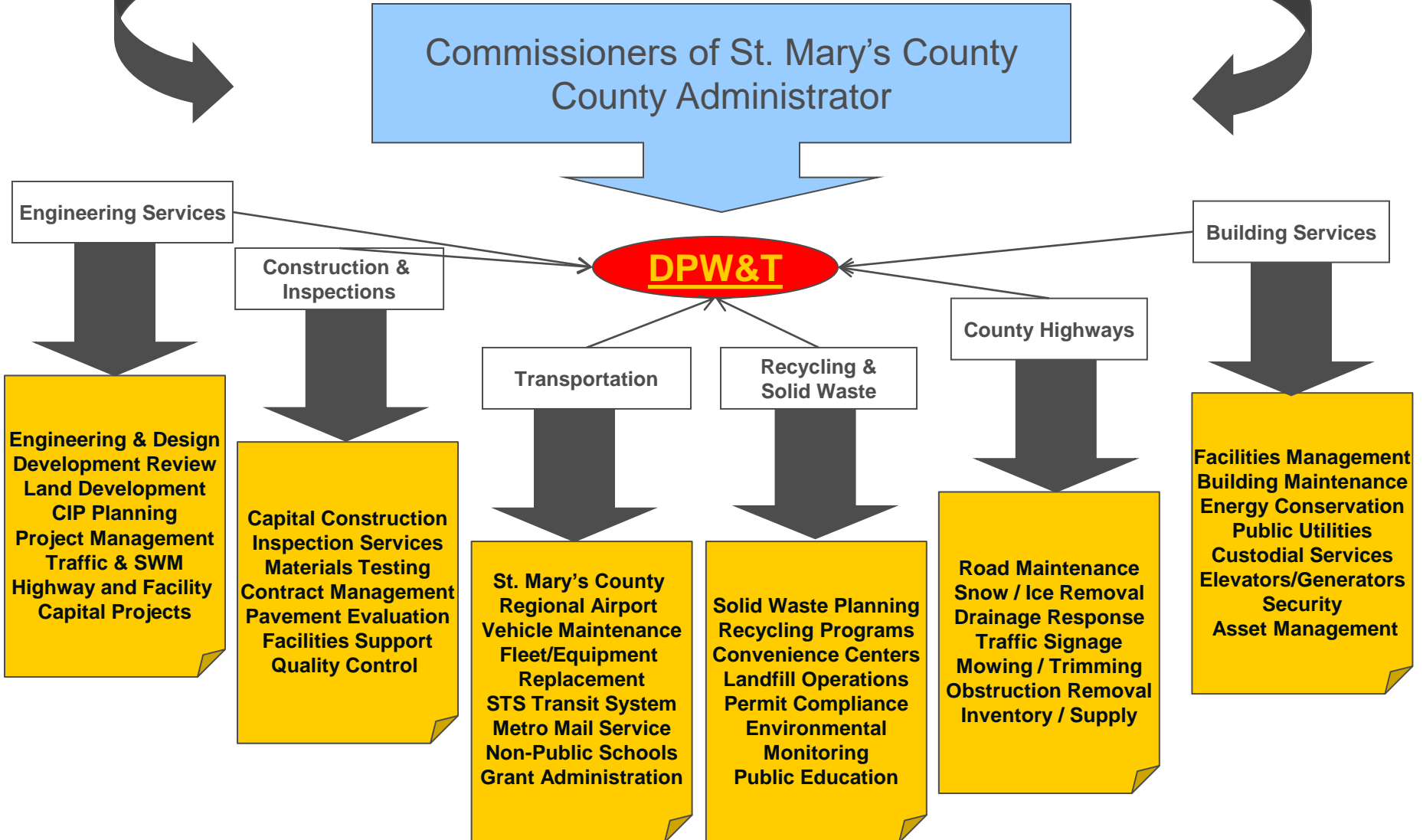
Foster Opportunities for Future Generations

- Prioritize Economic Development
- Achieve Excellence in Public Education
- Commit to Higher Education Opportunities
- Provide Quality Public Safety
- Foster Entrepreneurial Initiatives
- Leverage Community Priorities
- Maximize Citizen Contributions

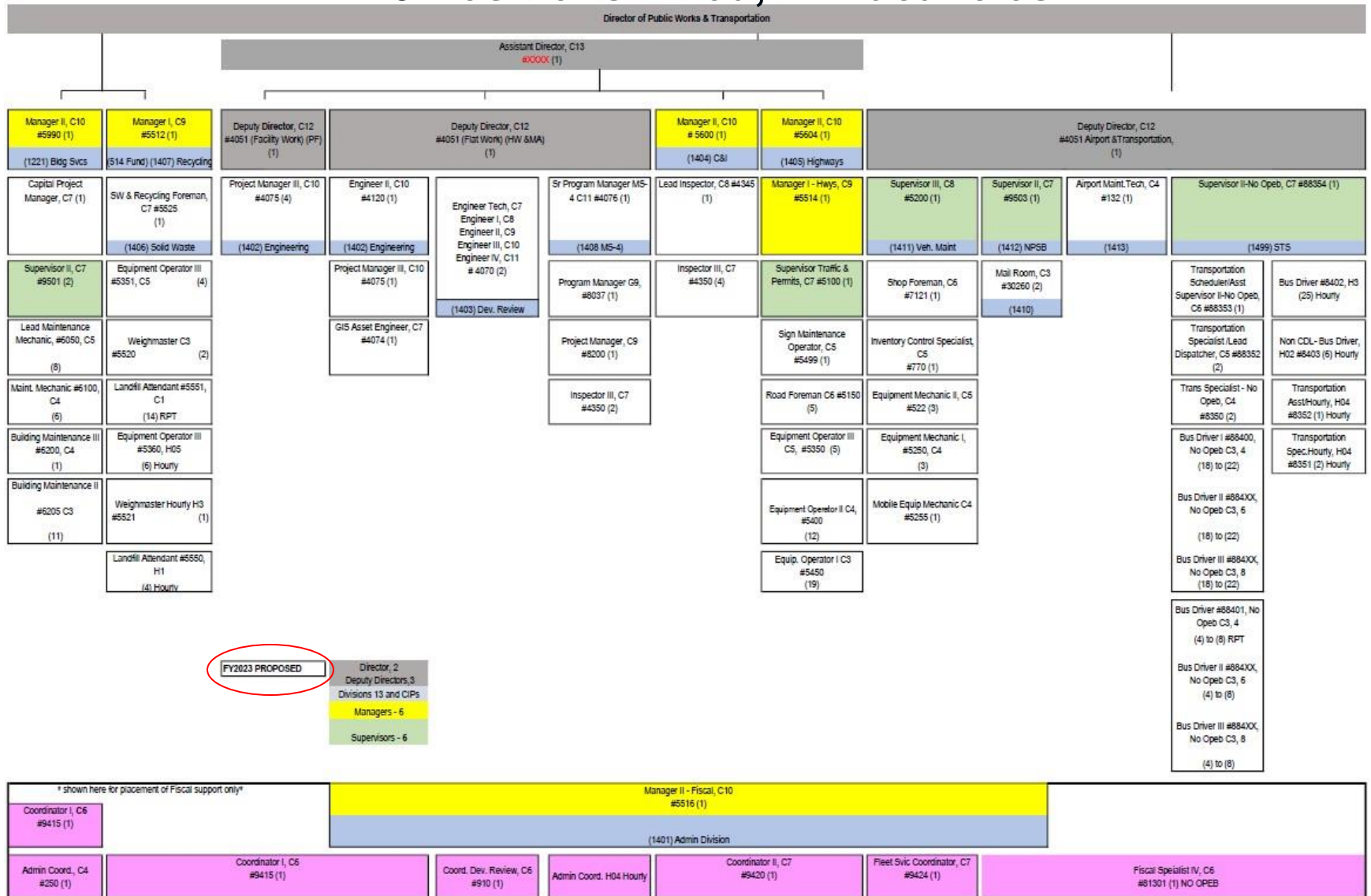
Preserve the County's Environment, Heritage, and Rural Character

- Follow Comprehensive Land Use Plan
- Support Land Preservation Parks & Recreation Plan
- Conserve Agricultural Lifestyle
- Preserve Historical County Assets
- Lead Conservation Assets
- Lead Conservation Efforts
- Promote our Heritage

Citizens of St. Mary's County



DPW&T Organization - Total 187 Employees 175 Positions Filled, 12 Vacancies



Engineering Services

Transportation Infrastructure & Facilities Delivery

"To effectively and efficiently manage the planning and design phase services for the continued orderly development of county- wide improvement programs."

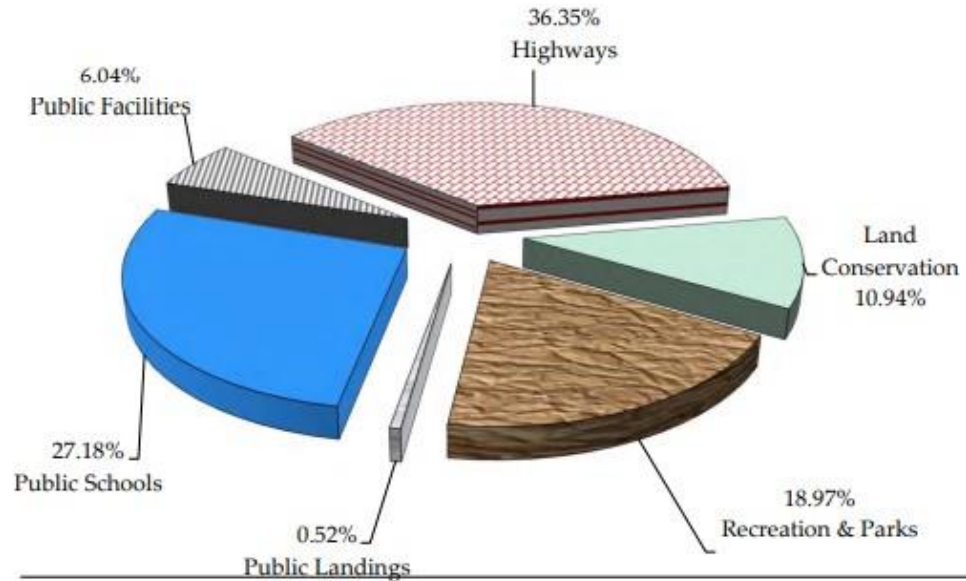


Engineering Services

15 capital projects funded in FY 2023 CIP Budget

- FY 2023 CIP program DPW&T: \$28,417,000
- Highways(10): \$25,027,000
- Airport(1): \$695,000
- Public Facilities(4): \$2,695,000

FISCAL YEAR 2023 CAPITAL BUDGET - PROJECTS



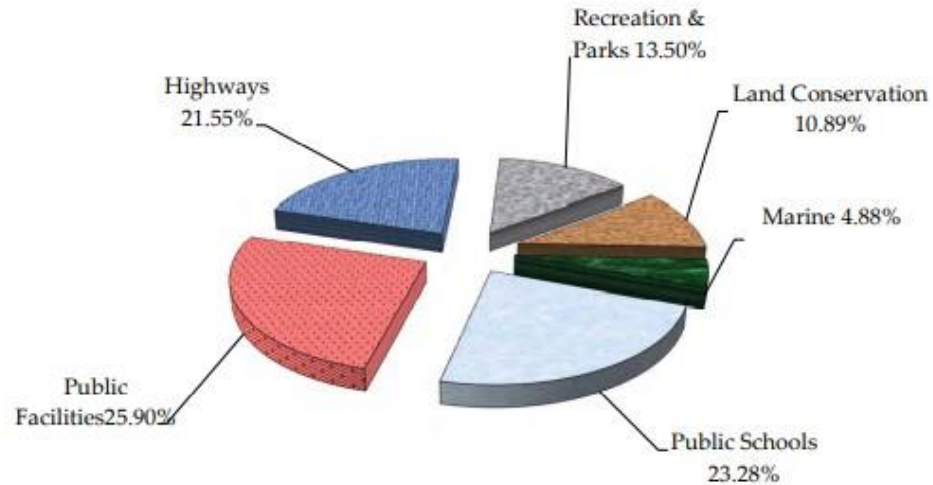
Highways	\$ 25,027,095
Public Schools	18,715,000
Recreation & Parks	13,058,262
Land Conservation	7,533,333
Public Facilities	4,157,932
Public Landings	<u>355,000</u>
Total	<u>\$68,846,622</u>

Engineering Services

17 capital projects funded in FY 2023 5-Year Plan

- FY 2024-2028 CIP program: \$132,241,000
- Highways(12): \$56,611,000
- Public Facilities(3): \$38,948,000
- Airport(1): \$23,863,000
- Marine(1): \$12,819,000

FISCAL YEAR 2024 - FISCAL YEAR 2028 CAPITAL PLAN - PROJECTS

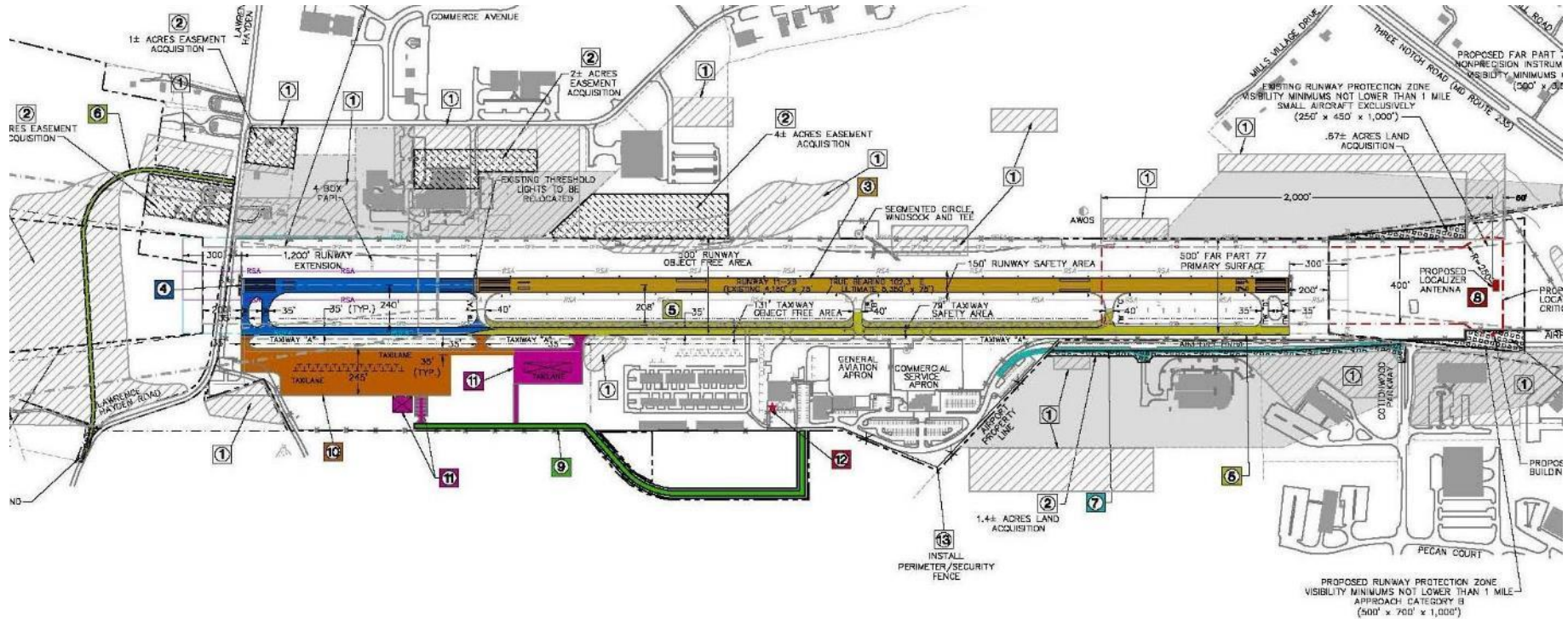


Public Schools	\$61,161,000
Public Facilities	68,042,157
Highways	56,611,500
Recreation and Parks	35,500,000
Land Conservation	28,600,000
Marine	<u>12,819,000</u>
 Total	 <u>\$262,733,657</u>

Airport Master Plan

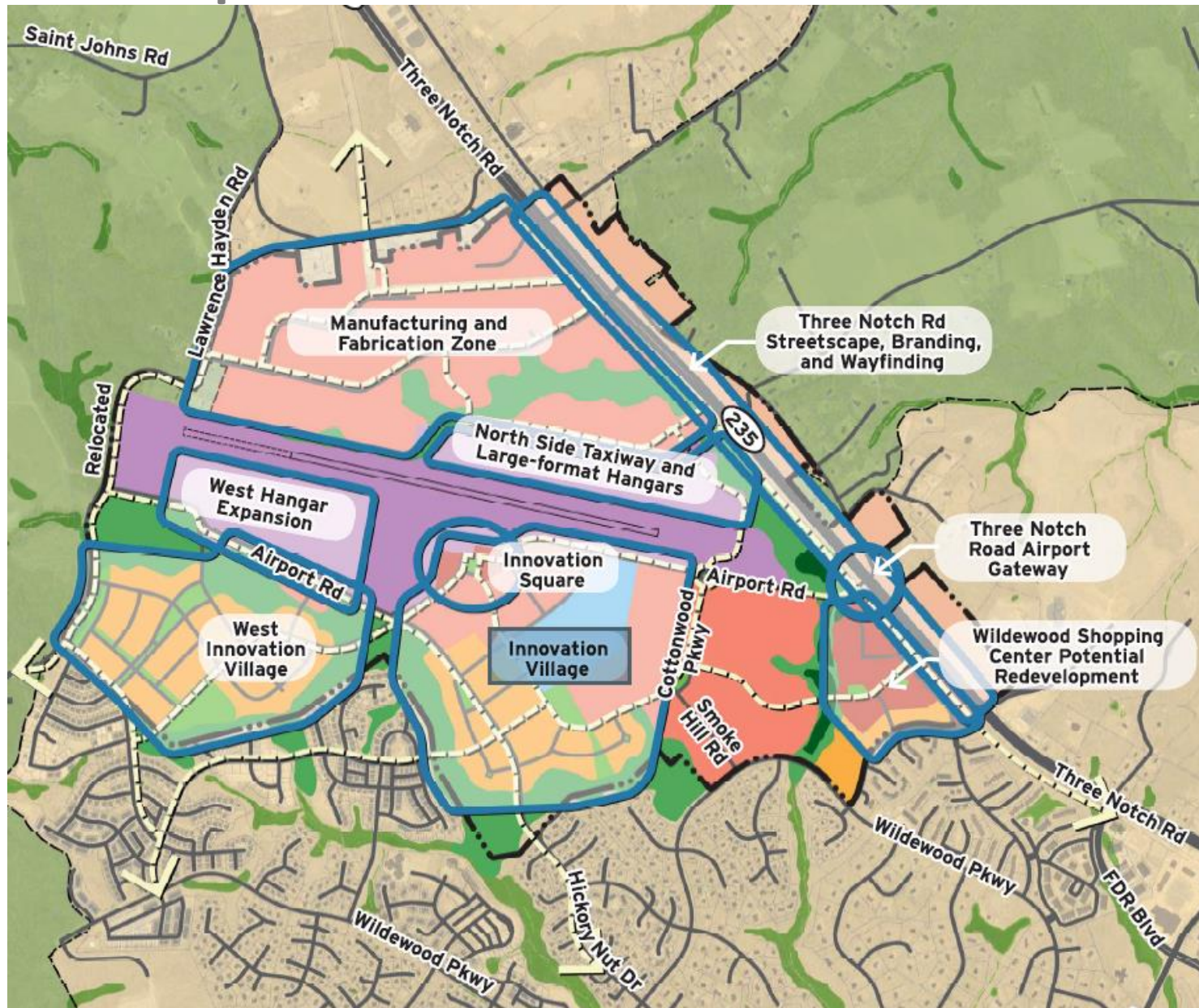


2002 Airport Master Plan



- ✓ Approved by the Federal and Maryland Aviation Administrations
- ✓ Includes all real property (fee simple and easements) needed to develop the airport to full build-out to include published approaches
- ✓ Establishes the sequencing and timing of the improvements and funding

Airport Innovation District





Airport Master Plan Completion Schedule

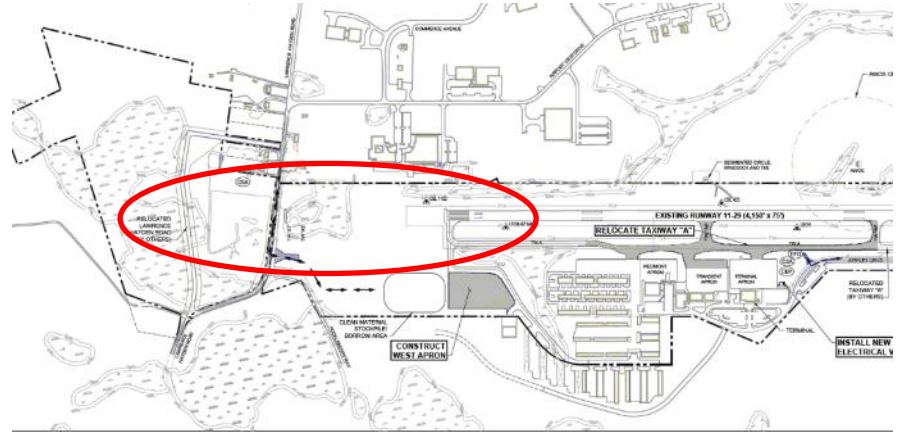
Current FAA-Approved Master Plan:

Lawrence Hayden Road Relocation	Oct 2019
Airport Road Relocation/Taxiway 'A' Extension	July 2020
Extend Runway 11-29 Phase I: Taxiway 'A' Relocation	July 2020
Extend Runway 11-29 Phase II: Site Preparation	Nov 2022
Extend Runway 11-29 Phase III: Paving and Lighting	Nov 2023

Innovation District Master Plan:

Pavement Condition Analysis	Nov 2022
Airport Master Plan Study/Airport Layout Plan Update	FY 2024
Environmental Assessment for New Airport Master Plan	FY 2025
Runway Rehabilitation	FY 2025
Access and Security Improvements	FY 2026
Commercial Apron Construction	FY 2027
North Parallel Taxiway Construction	FY 2028

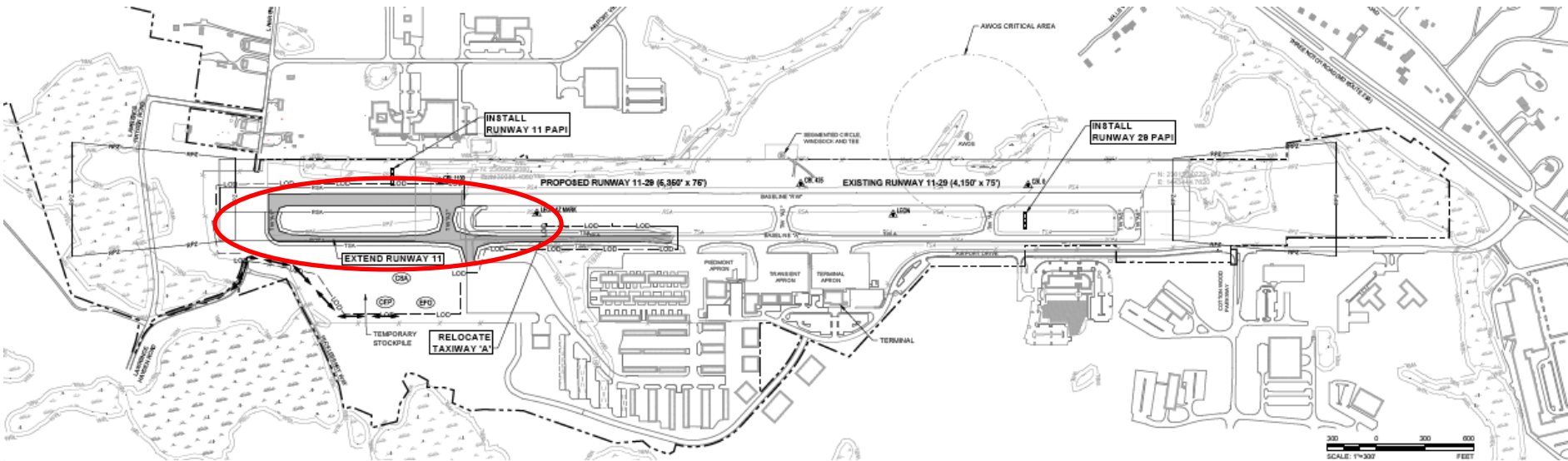
ST. MARY'S COUNTY REGIONAL AIRPORT – 2W6



**Extend Runway 11-29 Phase II
Site Preparation:
(November 2022)**

Const Cost \$3,265,000

ST. MARY'S COUNTY REGIONAL AIRPORT – 2W6



**Extend Runway 11-29 Phase III
Paving and Lighting:
October 2023**

Const Cost \$4,855,000

FACILITIES DELIVERY

Adult Detention and Rehabilitation Center



Budget : \$29,538,000

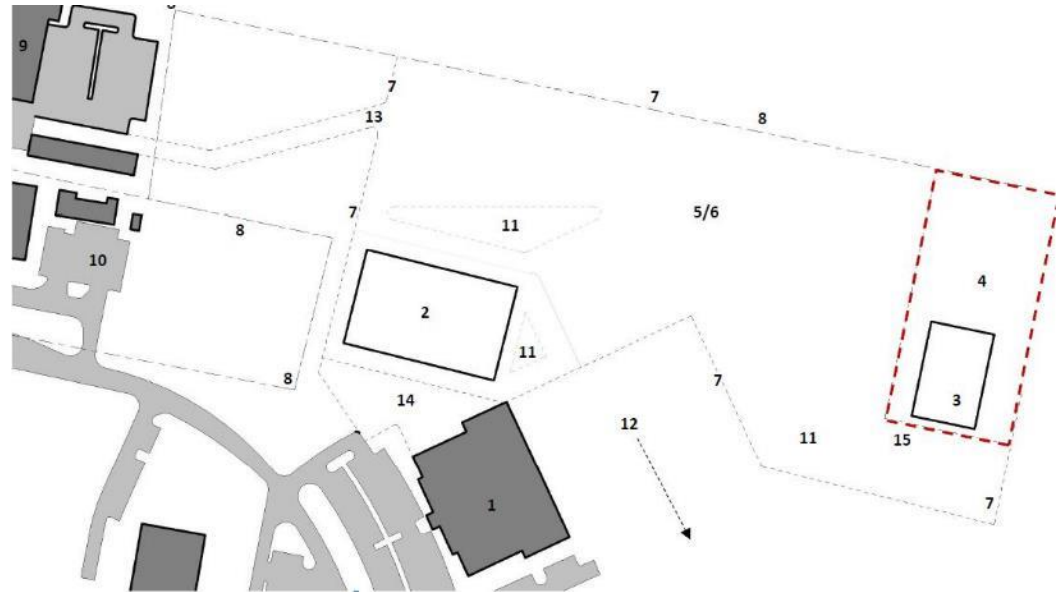
Design:	\$	1,011,000	3%
CM	\$	1,152,000	4%
Const.	\$	26,670,000	91%
Other	\$	705,000	2%

Schedule

Design/Build Award: NOV 2018
Site/Shell Construction Start: JUL 2019
Full Design Completion: NOV 2019
Interior Construction Start: DEC 2019
Addition Completion: JUNE 2021
Renovation Completion: SEP 2023

FACILITIES DELIVERY

Sheriff's Headquarters Facility



Budget: **\$36,690,000**

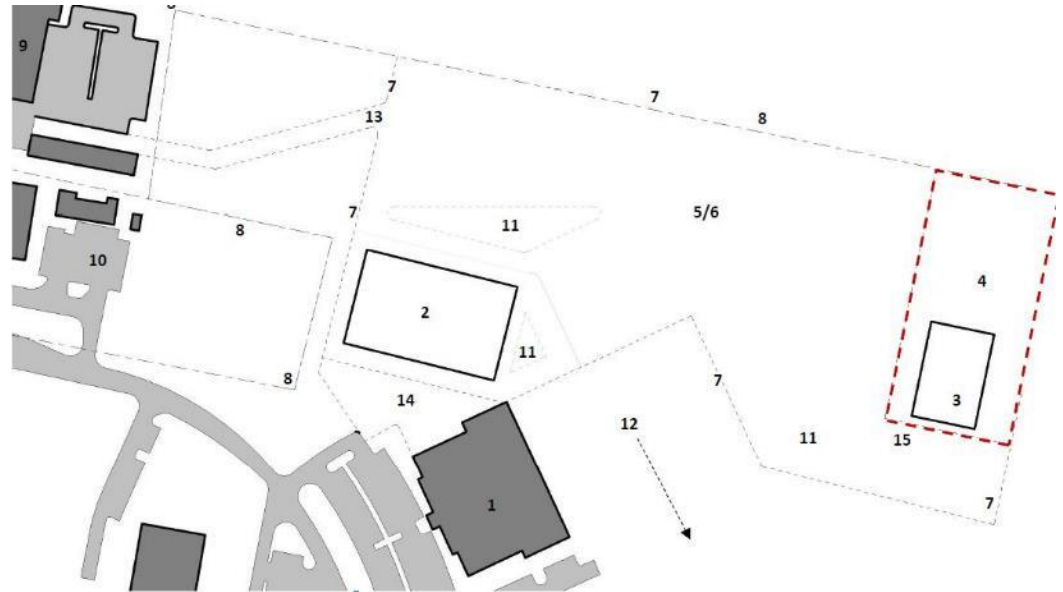
Design	\$ 3,250,000	9%
Evidence (Phs 1)	\$ 6,303,000	17%
Const. HQ (Phs 2)	\$ 23,611,000	64%
Utilities	\$ 772,000	2%
CM	\$ 750,000	2%
Equip	\$ 927,000	2%
Network	\$ 154,000	<1%
Contingency	\$ 922,000	3%

Schedule

Design Contract (Phase 1)	Dec 2021
Design Approval (Phase 1)	July 2023
Construction NTP (Phase 1)	Oct 2023 (FY24)
Design Contract (Phase 2)	Oct 2023
Construction Complete (Phase 1)	June 2025
Design Approval (Phase 2)	March 2025
Construction NTP (Phase 2)	July 2025 (FY26)

FACILITIES DELIVERY

Sheriff's Headquarters Facility



Budget:	\$36,690,000	
Design	\$ 3,250,000	9%
Evidence (Phs 1)	\$ 6,303,000	17%
Const. HQ (Phs 2)	\$ 23,611,000	64%
Utilities	\$ 772,000	2%
CM	\$ 750,000	2%
Equip	\$ 927,000	2%
Network	\$ 154,000	<1%
Contingency	\$ 922,000	3%

Schedule (Phase 1 only)

Design Contract	Dec 2021
Schematic Phase Approval	Sept 2022
Design Development Phase Approval	March 2023
Design Approval	July 2023
Construction Solicitation	Aug - Sept 2023
Construction NTP (FY24 funds)	Oct - Nov 2023
Construction Complete	April – June 2025

FACILITIES DELIVERY

Sheriff District 1 Office, Charlotte Hall



<u>Budget:</u>	\$670,000	
Design/CM:	\$ 70,000	10%
Construction	\$ 550,000	82%
Furn/Equip	\$ 50,000	8%

Schedule

Contract Award Phase 1	Aug 2021
Completion Phase 1	June 2022
Contract Award Phase 2	Sept 2022
Completion Phase 2	Sept 2023

FACILITIES DELIVERY

The Barns at New Market



<u>Budget:</u>	\$3,245,000	
Land	\$ 192,000	6%
Design	\$ 303,000	9%
Construction	\$ 2,243,000	69%
Utilities (Fees)	\$ 26,000	1%
CM	\$ 248,000	8%
Equip	\$ 233,000	7%

Schedule

Design Contract Award	December 2019
Design Complete	December 2020
Construction Award	January 2021
Completion	April 2022

FACILITIES DELIVERY

Animal Adoption & Resource Center



<u>Budget:</u>	\$7,783,000	
Design	\$ 429,000	6%
Construction	\$ 6,708,000	86%
Utilities	\$ 107,000	2%
CM	\$ 382,000	5%
Equip	\$ 36,000	1%
Network	\$ 90,000	1%

Schedule

Contract Award	January 2020
Site Plan Approval	October 2020
Design Complete	February 2021
Construction NTP	March 2021
Completion	July 2022

FACILITIES DELIVERY

St. Clements Island Museum Replacement



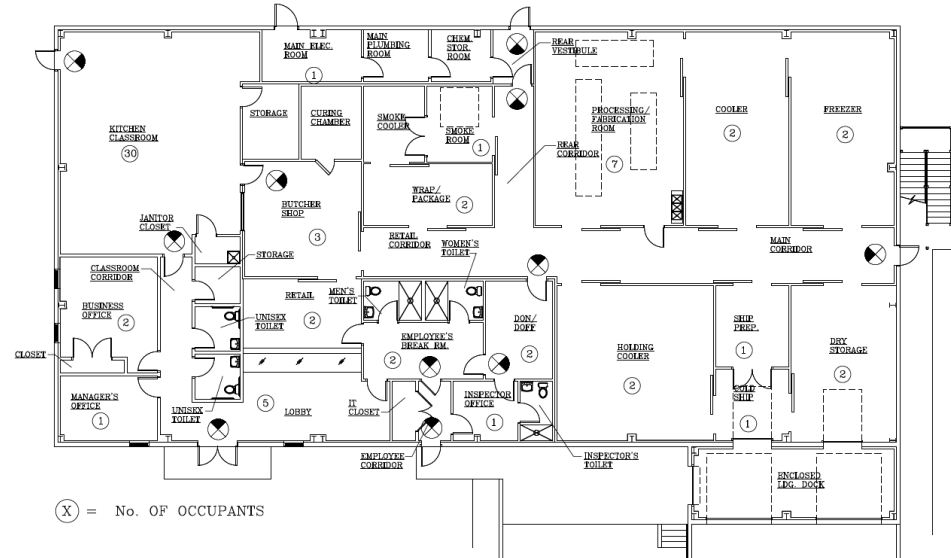
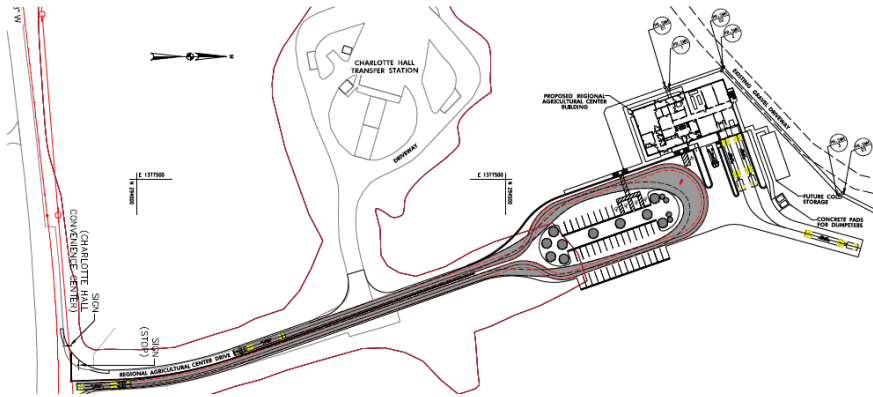
<u>Budget:</u>	\$4,435,840	
Design	\$ 407,640	9%
Construction	\$ 3,006,900	68%
Exhibits	\$ 645,800	15%
Network	\$ 100,000	2%
CM	\$ 171,500	4%
Furn/Equip	\$ 274,000	2%

Schedule

Design Contract Award	May 2021
Design Complete	September 2022
Construction NTP	January 2023
Completion	June 2024

FACILITIES DELIVERY

Regional Agricultural Center



Budget:	\$4,722,845	
Design	\$ 423,475	9%
Construction	\$ 3,413,495	72%
Cold Storage	\$ 200,000	4%
Water/Sewer	\$ 423,875	9%
Network	\$ 120,000	3%
CM	\$ 142,000	3%

Schedule

Design Contract Award (Bldg.)	April 2022
Design Complete	December 2022
Construction NTP	March 2023
Completion	June 2024

TRANSPORTATION INFRASTRUCTURE DELIVERY

Mount Wolf Roundabout (Charlotte Hall)



Buck Hewitt Road Phase 4 (Near Chancellors Run)



Design is complete for Buck Hewitt Phase 4 and Mt Wolf. These projects have completed the property acquisition process and construction should begin soon.

OTHER PROJECTS:

Buck Hewitt Road (near Future FDR) includes sidewalks (in final design)

South Shangri-La Drive Sidewalk Retrofit (in design nearly ready for construction)

Pegg Road Sidewalk Retrofit (in design from Westbury to MD235).

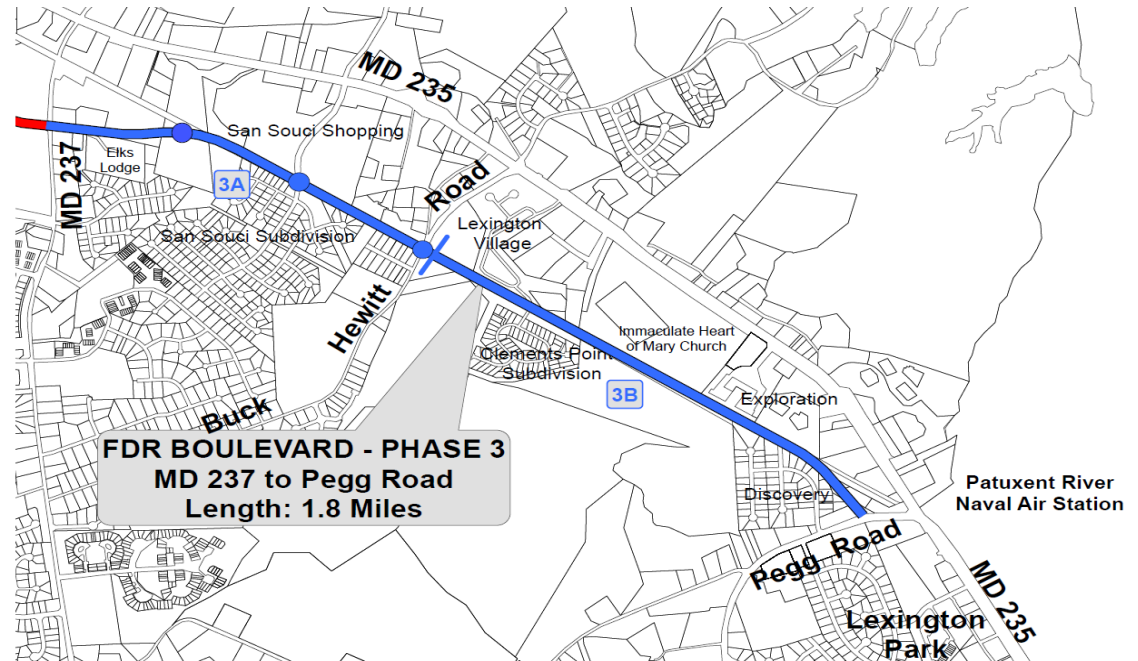
TRANSPORTATION INFRASTRUCTURE DELIVERY

FDR Boulevard Phase 3 – Current & Future Construction

Budget (Construction)

Phase 3A - 0.8 Mile =
\$8,702,550 (FY 21/22)

Phase 3B - 1.0 Mile =
\$10,700,00 (FY23)



Construction Schedule

Phase 3A – Contract Awarded (\$8.1 M)

NTP Issued Fall 2021

Completion Summer 2023

Phase 3B – Advertise Winter/Spring 2023

NTP Summer 2023

Completion Spring 2025

TRANSPORTATION INFRASTRUCTURE DELIVERY

Southampton Revitalization Project – Future Construction

Budget

Design : \$725,220 (FY20)

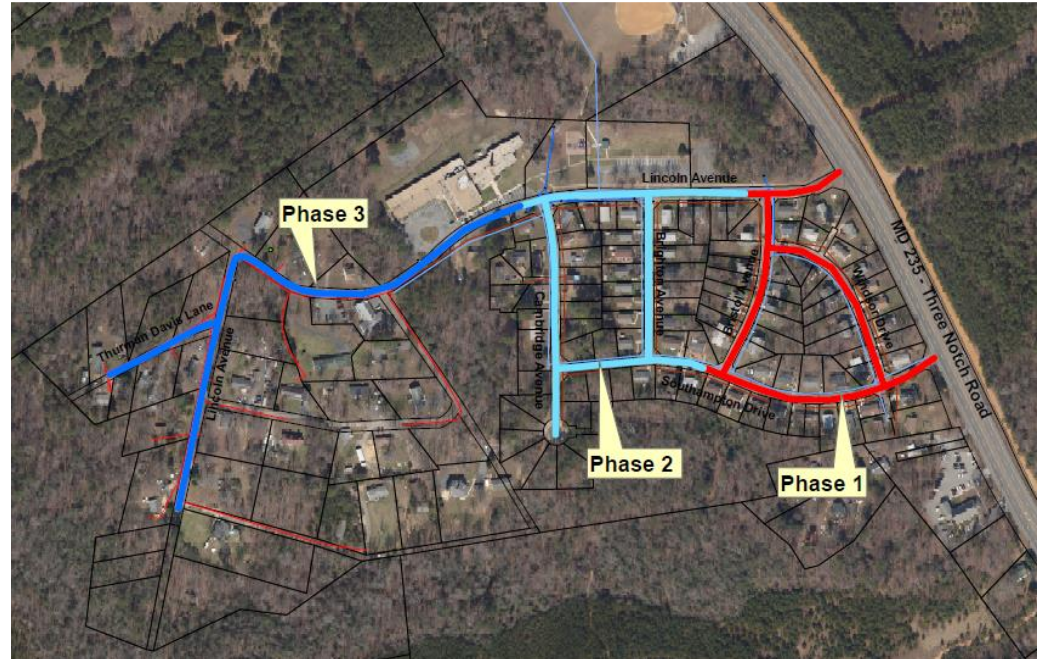
Property: \$300,000 (FY20-23)

Construction:

Phase 1: \$1,948,500 (FY23)

Phase 2: \$2,127,600 (FY25)

Phase 3: \$1,967,400 (FY27)



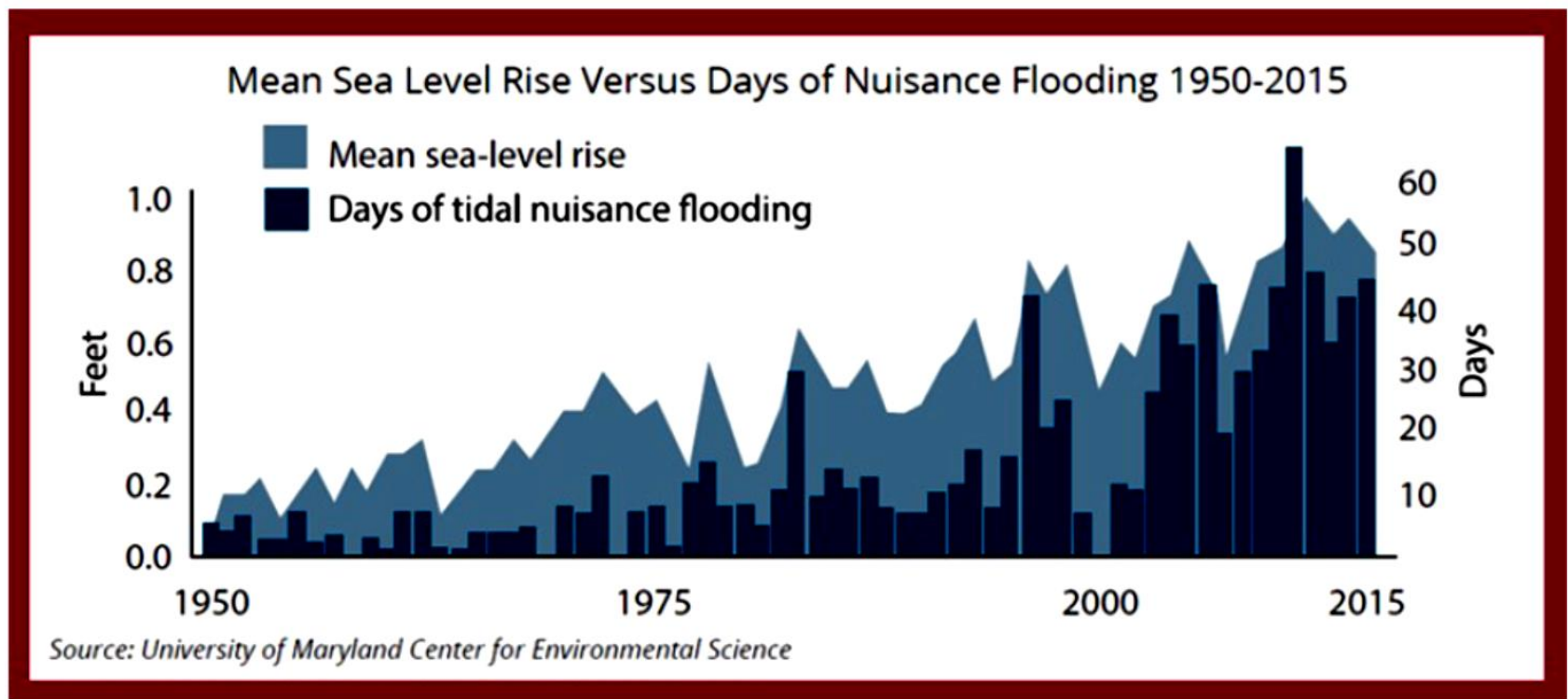
Complete Reconstruction of County Roads and
Public Water/Sewer Systems with a
Joint Solicitation for Construction with MetCom

Capital Improvement Projects



MARINE PROJECT DELIVERY

The Challenge From Location, Environmental Change & Water Extraction



MARINE PROJECT DELIVERY

St. Jerome Creek Jetties



Schedule: Army Corps of Engineers working on concept and extension of feasibility study.

St. George Creek Maintenance Dredge



Schedule: Staff Submitted NOI to DNR Grants Gateway FY23 Grant September 2021. \$100K for Design and \$450K for dredge and placement of material at Piney Point Road or Museum Shore Erosion site.

Marine Project Delivery

St. Patrick Creek Maintenance Dredge



DNR awarded WWIF Grant of \$800K in July 2021.

Staff is preparing RFP for design with \$100K budgeted. Dredge material to be hydraulically pumped to Newtowne Neck State Park for beach replenishment.

Projected schedule has design and permits obtained by Spring 2022 with dredge occurring late Spring, early Summer 2022

Piney Point Road Shore Erosion



Piney Point Road - St. George Island Shore Erosion (County)

Project is in design stage at 50%.

Projected schedule has design and permits obtained Spring/Summer 2022 and construction in Summer/Fall 2022.

Using sustainable materials, project is expected to be an improvement to water quality and nutrient removal, so the project funding is planned an existing project HW2108. The construction cost is estimated at \$300K.

MARINE PROJECT DELIVERY

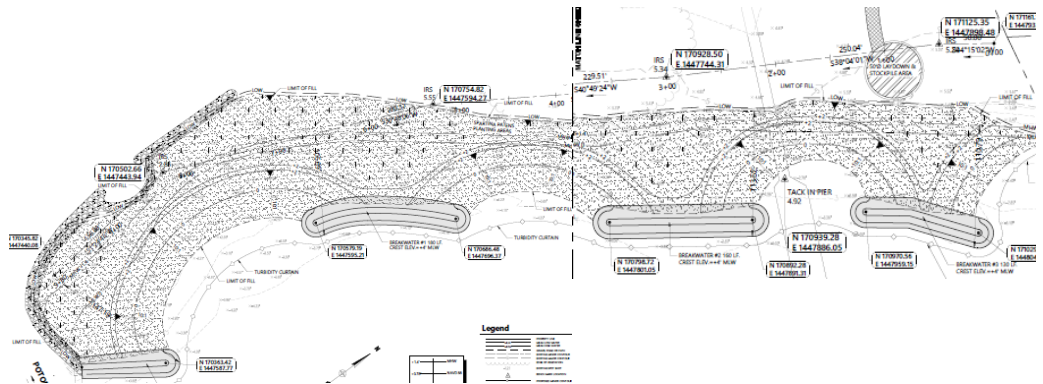
Threat to Civic Heritage and Infrastructure



Piney Point Lighthouse during coastal flooding conditions.



Lagoon side erosion, potential project.



Shoreline resiliency restoration design is currently underway along with construction grant funding through DNR Grants Gateway and the National Fish and Wildlife Foundation.

DEVELOPMENT & PLAN REVIEW



"To provide quality technical reviews, sound engineering recommendations & permitting support services for the development of public & private sector infrastructure."



Average Annual Work-load:

85-95 Subdivision plans reviewed annually. Majority of the subdivision are considered minor.

175-200 Site-plan & Mining plans reviewed annually.

25-35 Record plats approved annually.

25-35 Grading Permits issued annually.

0-5 Public Works Agreements issued annually.

DEVELOPMENT PLANS AND STORMWATER MANAGEMENT REVIEWS



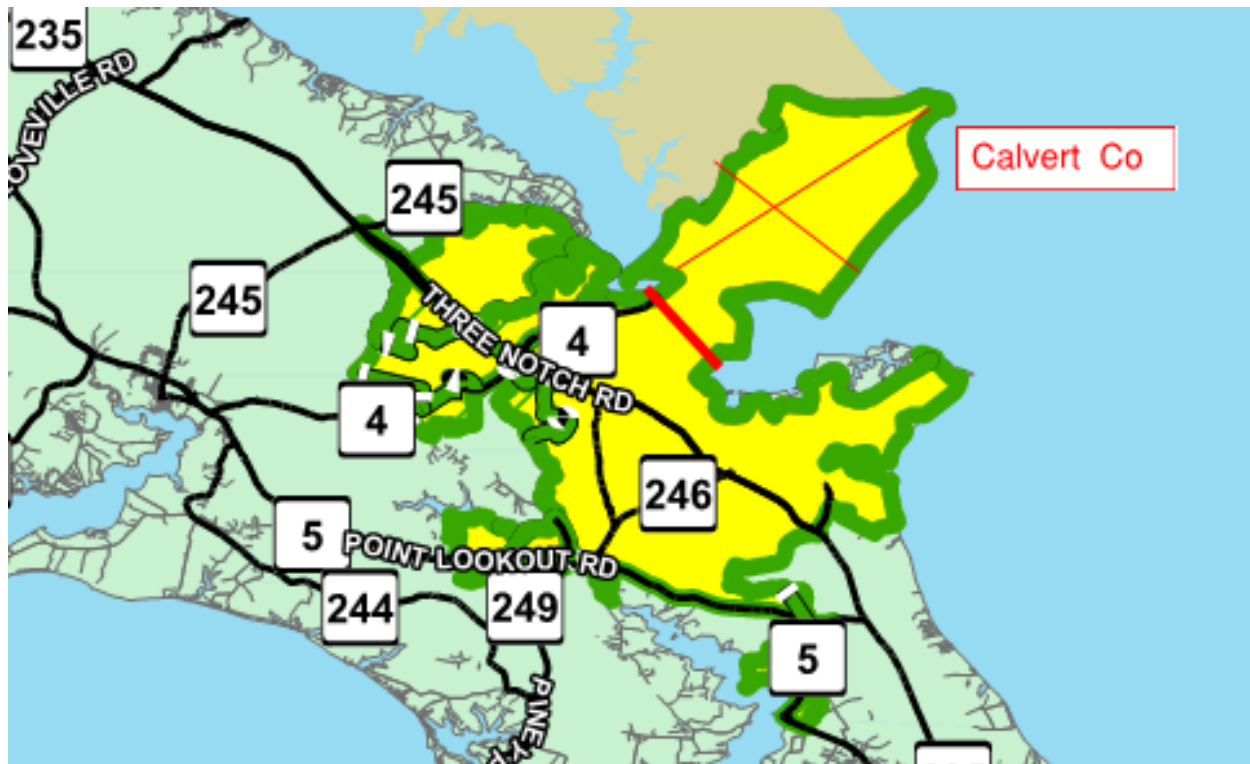
Consequences of, and the remedy for poor designs

Municipal Separate Storm Sewer Systems Permit (MS4)

- ❑ St. Mary's County is currently under the National Pollutant Discharge Elimination System (NPDES) General Permit No.13IM-5500 for discharges from small MS4's
- ❑ The permit requires programmatic implementation of the following Minimum Control Measure (MCM) activities:
 - MCM #1 - *Perform Public education and outreach;*
 - MCM #2 - *Provide for Public involvement and participation;*
 - MCM #3 - *Regulate and Establish methods to preform Illicit Discharges Detection and Elimination (IDDE)*
 - MCM #4 - *Ensure Construction Site Stormwater Runoff Control*
 - MCM #5 - *Provide for Post Construction Stormwater Management*
 - MCM #6 – *Establish programs for Pollution Prevention and Good Housekeeping*
- ❑ The requirement for impervious surface restoration to address 20% of this surface in the urbanized area has been met through practices and projects that have been implemented. These results and ongoing projects will be managed and reported for the rest of the permit period. These actions also support the Chesapeake Bay Watershed Protection Plan (WIP) goals.

Municipal Separate Storm Sewer Systems Permit (MS4)

☐ The Urbanized Area



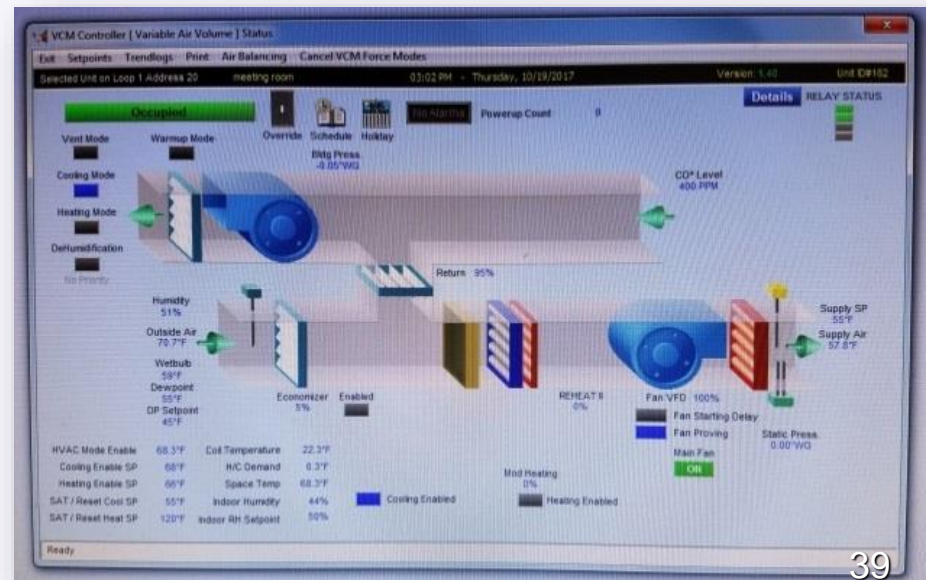
Stormwater Management Water Quality and Nutrient Removal



Government Center Stormwater Facility

Building Services

“To provide quality operational and maintenance activities as cost effectively as possible and to respond to service requests from our customers in a timely fashion in order to preserve facilities for future use by employees, visitors, and citizens.”



Building Services

- Over 850,000 s.f. of Buildings Maintained
- Consisting of 90 Facilities & Structures
- 14,000+ Maintenance Requests Completed per Year
- Maintaining Complex Computer Controlled HVAC Systems
- Computer Driven Lock Control Systems
- State of the Art Lighting Systems Including LED Lighting
- All Facility Repairs and Maintenance are Performed by Building Services Staff and Contractor Support as Needed
- Repairs and Installation Include: Roofing, Plumbing, Painting, Custodial Contracts, Flooring, Doors, Windows, ADA Operators, Elevators and Many More Categories

Airport Operations



" To satisfy aviation demand and promote airport development that both integrates with the community, drives research and job creation, and serves the region's general aviation and corporate pilots."



Transportation Airport Operations

- 18 aircraft related businesses at the airport
- Univ. of MD UAS Test Site and growing academic program
- 40,308 aircraft landings & takeoffs / year
- 205 based aircraft (4th in state)
- Averaging 500-1,000 “transient” visitors / year
- Now over 1,190 rotary wing operations / year
- Over \$23.7M in Federal & State grants
- Jet A + Low Lead fuel: 340,000 gallons /year
- Civil Air Patrol, S. MD Seaplanes, NAFC in Terminal
- Volunteer Flying Quiet program in place
- Extending the airport Runway 1200 feet

Re-Purpose Terminal Building



Activate and better utilize
County-owned building:

- Services for pilots
(gathering area, food/
coffee, small shop,
weather room)
- Rental space for small
tech/aviation firms
- Reconfigure interior and
explore addition
- Event space



<https://www.instantoffices.com/en-us/us/available-office-space/st-louis/washington-avenue-30347>

Re-Purpose & Energize The Terminal Building



Recent Activity at the Airport

- Demand for aviation-related flex space and runway access for businesses:
- Constructed 4 office/flex buildings (52,000 sf) by S. Hunt Aero
- Private sector business now operating or based at the airport; (ASEC, Alion, Atkinson Aviation, Chesapeake Technologies, PAE)
- @ the Airport
- University of Maryland UAS Test Site
- University System of Maryland at Southern Maryland (USMSM) building UAV research and development building







Leases and Tenants

Public and Private Development





DEVELOPMENT PLAN

- 77 General Aviation Hangars
- 4 Office/R&D Buildings 42,400sq-ft
- 4 production facilities totaling 41,850sq-ft
- 7 large hangars totaling 72,000 sq-ft
- Helipad
- Potential UAV Operating Area



RUNWAY EXTENSION BY 1200 FEET



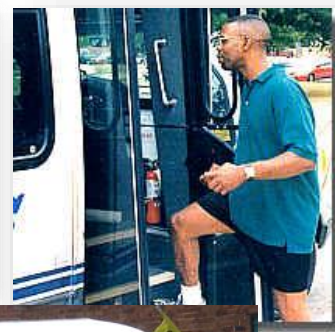
Transportation Fleet Management

- FY22 - 464 county vehicles in fleet, 217 are Sheriff
- Almost \$24M fleet replacement value
- 3,518 job orders completed totaling \$753,502.07 with 8 mechanics
- FY22 502,731.44 unleaded gallons and 417,772.32 diesel gallons pumped at a cost of \$1,932,495.13.
- County vehicles traveled over 10 million miles last fiscal year



St. Mary's Transit System STS

"To provide safe, dependable and cost-effective transportation to our customers and mobility for all residents."





St. Mary's Transit System



- FY22: 1,023,554 miles driven, 195,217 passengers transported
- FY19 1,181,170 miles driven, 379,949 passengers transported
 - 13.5% reduction in miles and 49% reduction in passengers
- FY21 \$293,207 collected in passengers' fares, 19% reduction
- FY19 \$360,905 collected in passengers' fares
- STS is supported by Federal, State and County funding; \$3.2M budget
- Operating costs: 43% Fed, 2% State, 55% County
- Capital costs: 80% Fed, 10% State, 10% County
- Offer Public fixed routes, ADA and SSTAP routes throughout the county
- On-Line schedule and routes <http://www.co.saint-marys.md.us/docs/STS%20Schedules%20full.pdf>



Non-Public-School Buses & Metro Mail

- Established by Law in 1941 County Code
- FY22- 36 buses currently under contract (excluding 12 spares)
- 12 non-public schools served – Father Andrew White, Kings Christian Academy, Bay Montessori, Leonard Hall Jr. Naval Academy, Little Flower, 2 Mennonite schools, Mother Catherine Academy, St. Johns, St. Mary's Ryken, St. Michaels & Chesterton Academy
- Approx. 800 student riders/year; 15 out of county students served at a cost of \$900/year
- NPSB routes are approx 605,0000 miles / yr
- In FY 22 – 171,093 pieces of mail were processed at a cost of \$104,218.06.

Construction & Inspections

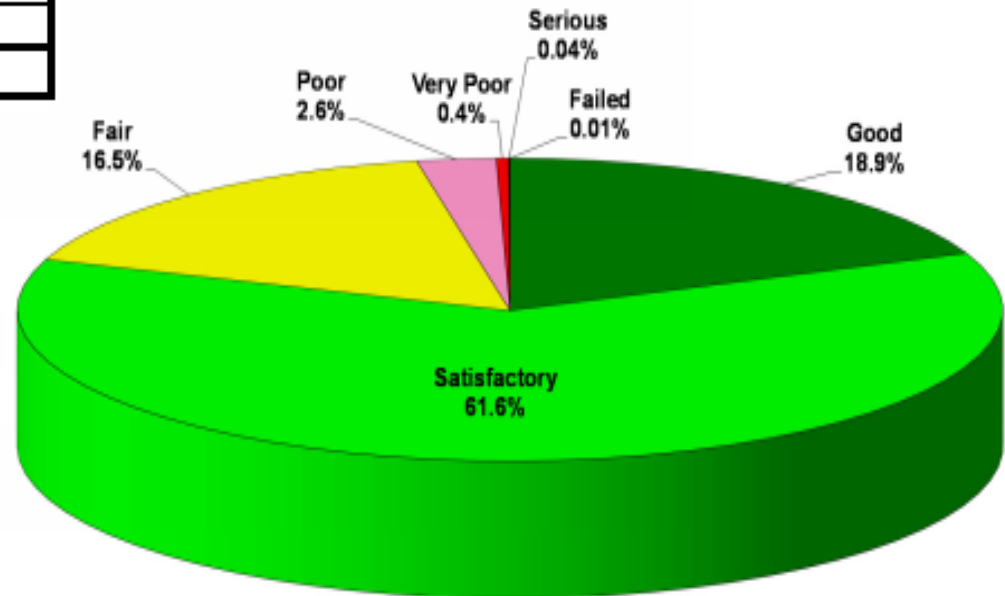


"To assure quality control of capital construction and site development projects through proper management, inspection, and testing of materials."

Construction & Inspections

PAVEMENT MANAGEMENT PLAN

Surface Type	Centerline Mileage
Asphalt (AC)	405
Surface Treated (SS/ST/MS)	232
Unsurfaced (GR)	4
All	641



	Activity	PCI Range	Cost/sf	
			Non-Residential	Residential
Maintenance	Crack Sealing, Partial and Full-Depth Asphalt Patching, and Shoulder leveling	90+	\$0.00	\$0.00
		80-89	\$0.15	\$0.15
	Modified Seal (Non-Res) or Thin Overlay (Res)	70-79	\$0.17	\$0.81
Rehabilitation	Overlay with 2.0" Hot Mix Asphalt	60-69	\$1.11	\$1.11
	Mill 1.5" and resurface with 2.0" Hot Mix Asphalt	50-59	\$1.34	\$1.34
	Full Depth Reclamation (FDR)	<49	\$2.35	\$2.35

Construction & Inspections

- Asphalt Overlay program average 15 - 20 road miles per year
- Roadway Surface Treatment Program averages 30 to 35 road miles of resurfacing per year
- Guardrail installation averages 1,000 feet of new installed each year with an average of 2000 feet repaired
- Pavement marking averages 2 to 3 M feet per year restriped with approximately 20,000 feet of new lines installed
- Assist in Capital project management
- South Hampton Neighborhood Preservation major ongoing project
- Snow Contractor and Debris Site Management

Average 3,000 inspections performed each year

- \$5.6 M in Public Works Agreements bonded



- \$16.1 M in Grading Permits bonded



\$18M

Average 3,000 inspections performed each year

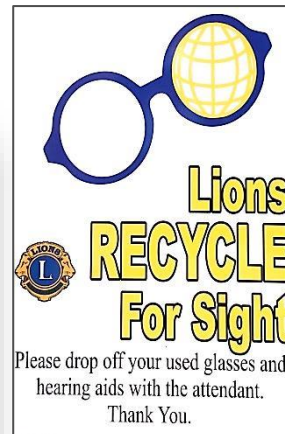
- \$670 K in Right of Way Permits bonded

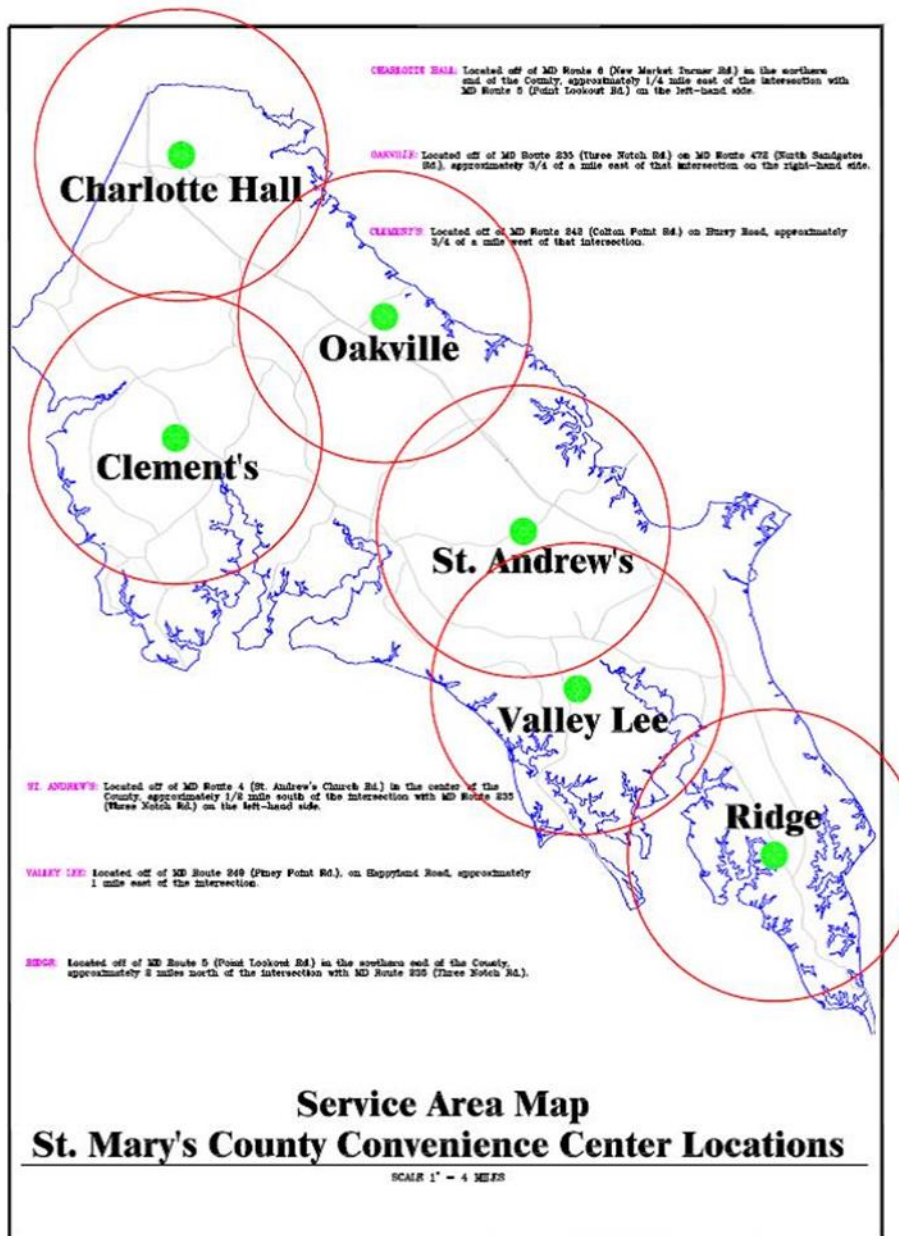


- Stormwater Management



Recycling & Solid Waste





The Convenience Centers are strategically located based on a ten (10) mile service area radius which provides County-wide coverage.



County Highways



"To exercise good judgment & implement programs which maintain all roads & bridges under its jurisdiction safe for public travel."



County Highways

- First road 1639 Mattapan Path in St. Mary's City
- Approx. 1,662 roads / 1,322 lane miles in the “system”
- Average of 9 new roads accepted into system each year
- 1,200 acres along the roadway mowed 3 times per year
- Adopt-a-Road Program participants: over 40
- Annually
 - 5,500 feet of old drainage pipe replaced
 - 400 signs replaced
 - 100 traffic counts & 30 speed studies
 - 45 utility permits issued
- “311” - Online Maintenance Request System
 - 1,460 requests received in between 8/1/21 – 7/31/22
- Emergency Response
 - Spring/Summer/Fall: Debris Removal & Erosion Repair
 - Winter: Snow, Sleet & Freezing Rain
 - Traffic Control Assistance/Detours: Police, Fire & EMS



See A Problem
Report A Problem



CITIZENS ACADEMY

Thank you for coming to the
Citizens Academy session for
DPW&T!

Questions?